Carolina Country

June 1980

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Solar Energy Gets A Leg-Up In Maggie Valley
See Pages 8-9

Viewpoint

A Bid To Save "Hometown" Newspapers

Of the 1,759 daily newspapers published in the U.S. —most of them in small towns — more than 1,000 of them have been purchased by large newspaper chains. As a result, the four largest chains now control nearly 30 percent of the nation's daily newspaper circulation.

That alone should be enough to give Congress pause to seriously consider a move now afoot on Capitol Hill to stem the trend toward ownership concentration in the newspaper business.

North Carolina Sen. Robert Morgan, Arizona's Rep. Morris K. Udall and about 100 of their colleagues are leading the effort, having introduced legislation aimed at lessening the impact of inheritance or estate taxes levied on family-controlled newspapers as they pass from generation to generation.

It's A Matter of Money

It is during these transfers that the huge chains exert the kind of pressure few newspaper families can resist. It's purely a matter of dollars and cents.

Under current laws, newspaper heirs must pay the Internal Revenue Services 70 percent of the newspaper's estimated purchase price, which is based not on the newspaper's earnings but on what a buyer would be willing to pay for it.

If a newspaper were making $250,000 a year, it could be taxed as much as $8.5 million because a chain would be willing to pay $12.5 million to purchase the paper.

A sad tale of just how this can work comes out of recent developments in Greenville, Miss., where the *Delta Democrat-Times* had played an often heroic role in honest reporting under the late Hodding Carter Jr. Carter's son, Hodding II, had carried on in the same tradition before becoming a State Department spokesman.

The value of the newspaper had increased so greatly that after estate taxes were paid, no member of the family could hope to buy it. Along came the Freedom Newspapers, Inc., with a high bid of an estimated $16 million — and one more independent newspaper quickly bit the dust.

The sale was particularly unpalatable because this newspaper, with its outstanding record, was absorbed by an ultra-conservative chain that's known for its opposition to tax-supported schools and virtually all government regulation.

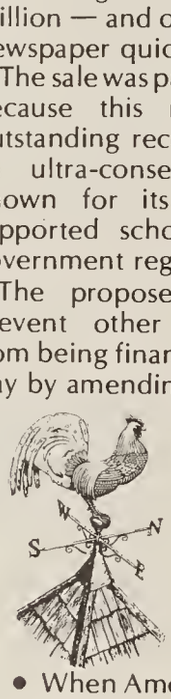
The proposed legislation would prevent other newspaper families from being financially cornered in this way by amending the tax laws. Under the proposal, newspapers could set aside up to 50 percent of their annual profits in a tax-exempt fund, with money from the fund to be used only to pay inheritance taxes.

Most of us have found ourselves at odds with our favorite hometown newspaper from time to time. Even so, if it's an independent publication, we can at least be assured that its owners are an integral part of that hometown. They would have established their policies with the benefit of that perspective.

Policies Like Fast-Food Hamburgers

And, there can be no question of the policies having been formed in some far distant home office and shipped out like so many fast-food hamburgers.

If Congress fails to adopt this legislation, the nation may soon see the end of this kind of independent newspapering, as its last outposts are inevitably absorbed by the giants of "golden arches" journalism.



The Passing Scene

• How-Quickly-They-Forget Department: The Postal Service recently returned a copy of *Carolina Country* to our office which obviously needed a revised label. It was addressed to "Gov. James E. Holshouser, Jr., Governor's Mansion, Raleigh, N.C." Adding insult to injury, the Postal Service had marked it: "Addressee Unknown."

• When Americans talk about getting married, they say the darndest things, a University of Wisconsin professor has found.

Marriage is called *"hopping the broomstick"* in Indiana, *"throwing the switch"* in Massachusetts, *"getting buckled up"* in Connecticut, *"Hooking up double"* in New York, and *"getting hung"* in Michigan.

And if a woman refused a man's plans for *"going up the middle aisle,"* as they say in Pennsylvania, she *"rang him the go-by"* in Texas and *"the mitten"* in Oregon.

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Says DOE Official

Windmill Built As Research Project

The big windmill on Howard's Knob at Boone, which has been the subject of extensive criticism from various quarters, is doing its job quite well, according to John Sawhill, deputy secretary of the U.S. Department of Energy.

The wind turbine generator has been plagued with problems since it was dedicated last July. New rotors are on order. Neighbors have complained of humming sounds, thumping and interference with television reception. Little electricity has been generated.

"It's purpose has never been to generate on-line electricity. It is a research project," Sawhill said during a recent visit to North Carolina.

"We encourage people to tell us what the problems are."

The joint DOE-National Aeronautics and Space Administration project was "built to determine the feasibility of wind-generated electricity; to see just what the problems may be."

'It's purpose has never been to generate on-line electricity. It is a research project. We encourage people to tell us what the problems are.'

—John Sawhill
Deputy Secretary
U.S. Department of Energy

Sawhill added: "We are finding the answers to the questions, so that the next time we build a facility like this or when private industry builds one, we will know better how to proceed. That is an important role of government . . . . to do experimental projects of this nature."

Thus far, the generator has produced about 30,000 kilowatt hours of electricity, which has flowed into the power distribution system of Blue Ridge Electric Membership Corporation, Lenoir.

Although Blue Ridge EMC personnel are being trained to operate the facility, it has bee operated solely by General Electr personnel.

"We understand that most of th bugs have been worked out of th machine and it should be turne over to us to operate in the ne future," said Spencer Carter, th EMC's director of commun cations.

"Still, we want to stress that th wind turbine generator is a experimental project that designed primarily for researc and development.

"When the machine begi regular operation, the goal is for to generate about 1 percent of th co-op's electricity need supplying enough power — wi ideal winds — for 300 to 5 homes. But even if it doesn't reac that goal, whatever power generates will cost Blue Ridge ve little, and a great deal will hav been learned about the large-sca wind turbine generators."

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State Agency Offers Book on Lighthouses

A new publication of particular interest to Outer Banks enthusiasts is now available from the North Carolina Department of Cultural Resources.

It is *North Carolina Lighthouses* by David Stick, a noted authority on the Outer Banks who has written several previous books on the subject. The book traces the history of the construction and operation of the lighthouses along the Outer Banks.

The book is available in paperback for $2.50 plus $1 for postage and handling from the N.C. Department of Cultural Resources, Historical Publications Section, 109 E. Jones St., Raleigh, N.C. 27611.

A $6 hardcover edition will be available in late June.

Seven EMC Directors Are Re-Elected

Seven incumbents at two North Carolina Electric Membership Corporations have been re-elected to the EMCs' Boards of Directors during recent co-op annual meetings:

Halifax EMC, Enfield — Incumbent directors who were re-elected were A. C. Cox Jr. of Rt. 3, Enfield; Marion R. Smith of Rt. 1, Oak City and Leon S. Williams of Rt. 3, Warrenton. The new slate of officers for the coming year includes Smith as vice president and Williams as assistant secretary-treasurer. Other officers are: Raymond Sykes of Rt. 2, Whitakers, president and Helen Fleming of Rt. 2, Scotland Neck, secretary-treasurer.

French Broad, Marshall — Incumbent directors who were re-elected were John O. Corbett of Marshall, W. G. Plemmons of Rt. 3, Leicester, Hazen Ledford of Burnsville and James W. Ray of Burnsville. The new slate of officers for the coming year includes Corbett as president and Ray as assistant secretary. Other officers are: Novile Hawkins of Rt. 1, Mars Hill, vice president; Joe Justice of Hot Springs, assistant treasurer; I. E. Clevenger of Burnsville, secretary and Albert Freeman of Rt. 7, Marshall, treasurer.

Pinehurst Featured In Cover Photograph

Professional photographer Catherine Ursillo snapped this shot on the links at Country Club of North Carolina, Pinehurst, on assignment for *World* magazine, quarterly publication of Peat, Marwick, Mitchell & Co., New York. Our thanks to Jerry G. Bowles, the magazine's editor, for allowing us to use the color separations of the photo, which originally appeared in *World's* Spring, 1979, issue.

Annual Meeting Set At Randolph EMC

Randolph Electric Membership Corporation, Asheboro, will hold its 1980 Annual Meeting on July 18 at Asheboro's Lee J. Stone Stadium, with registration beginning at 6:30 p.m. The business session will begin at 8 p.m. In case of rain, the meeting will be held in the high school auditorium.

Book Reviews History Of Rural Electric Program

A new book by Pulitzer Prize-winning journalist Marquis Childs tells the story of the electric power revolution in rural America from the beginning of the rural electrification program to the present.

The veteran newsman and author traveled across the country last year to find out just how well the nation's electric cooperatives have lived up to their promise. In the process, he gathered material to update his 1952 book *The Farmer Takes a Hand.* The new paperback edition includes that book, plus a new section titled *Yesterday, Today and Tomorrow.*

In adding a new foreword and three chapters to the early book, Childs highlights the "amazing and fundamental changes" that have taken place since the first phase of rapid growth.

"The cooperative concept was th basis of rural electrification. It was the essential ingredient of the co-ops that spread with such zeal and enthusiasm in the early phase. If th concept is obscured, the political consequences must be reckoned with," Childs said.

Copies of the new book are available from the N.C. Association of Electric Cooperatives at P.O. Box 27306, Raleigh, N.C. 27611. It is priced at $2, including postage. Ask for *Yesterday, Today and Tomorrow*

Westinghouse To Develo New Heat Pump Design

The Westinghouse Electric Corporation has been awarded a three-year, $4.4 million contract from Union Carbide Corporation o behalf of the U.S. Department of Energy to develop an advanced electric heat pump for residential and commercial use.

The program calls for the demonstration of several prototype units by 1982.

The contract will be performed b the Research and Development Center and the heating and cooling division, both located in Pittsburgh. Westinghouse will develop the unit commercially, which is a prime requirement of the DOE program.

The program aims at manufacturing a heat pump with significant improvement — at least 20 percent — in seasonal performance factor over today's most efficient units, and with a significant reduction in life-cycle cost to the consumer.

Where heat pumps are used at present, they consume less energy than alternative electrical heating equipment. The advance electric heat pump would enable energy-conscious customers to further reduce expenses for heating (and cooling) as well as help in the conservation of precious energy resources.

Thus far heat pumps have been best accepted for use in moderate climates, in southern climates with significant air conditioning load, or

in new construction where the alternatives for heating are oil, propane or electrical resistance heating systems.

Federal Agency Offers New Consumer Handbook

The U.S. Office of Consumer Affairs has published a new handbook which offers consumers valuable information on complaint handling and government services.

The 76-page paperback book *Consumer's Resource Handbook,* is subtitled "what-to-do, where-to-go manual for resolving consumer problems."

In a foreword, Esther Peterson, special assistant to the President for Consumer Affairs, says the booklet "will help you to locate the best sources of assistance and information offered by businesses, industry groups, voluntary organizations, government, labor organizations and the media."

The booklet includes sections on "Complaint Handling" and "Federal Information and Services," as well as a directory of state and local government offices.

Free copies of the publication may be ordered from the Consumer Information Center, Department 532G, Pueblo, Colo. 81009.

Alternative Energy Corporation Established

The N.C. Utilities Commission has created a non-profit Alternative Energy Corporation to help find alternatives to electric power.

The corporation will be financed by the state's electric suppliers with funds from customer rate payments. Participation in the corporation is voluntary for the utilities.

The purpose of the corporation would be to curtail costly power plant construction by encouraging development of alternatives to electric power, such as solar energy and wood energy.

For example, the corporation could help fund development of wood heaters and furnaces in the state.

The commission noted in an order authorizing the corporation that 10 years ago, construction of new coal-fired or nuclear plants typically cost about $150 for each kilowatt of generating capacity. For plants being designed for the 1990s, the cost is expected to exceed $1,500 a kilowatt.

The corporation grew out of a $28.3 million Duke Power Co. rate hike granted last October. The commission ordered that $1 million of the hike be set aside for such a corporation, subject to refund if Duke decided not to take part.

Since then, the commission has granted Carolina Power & Light Co. a $43.4 million hike, setting aside $628,000 for the corporation. Similar amounts would be set aside in future rate changes for Virginia Electric and Power Co. and Nantahala Power & Light Co.

The corporation would have a 13-member board of directors, seven of them public members appointed by the governor. The other six members would be appointed by the participating power suppliers.

Home Folks

Reginald L. Lester of Raleigh has been named managing director of the Tobacco Grower's Information Committee Inc., succeeding **W. W. (Billy) Yeargin**. The committee is a private, non-profit organization supported by all segments of the tobacco industry. Its purpose is to represent the tobacco industry's views on various issues and to provide information to growers on matters affecting tobacco. Lester, a Sanford native, is a former *Durham Sun* reporter and has held public affairs posts with Liggett & Myers Tobacco Co. and General Telephone Co. Yeargin left the committee post to become a legislative aide for agriculture on the staff of Sen. Robert Morgan . . . . **David M. Jenkins** has been appointed head of the Department of Agricultural Information at N.C. State University. Effective July 1, he will succeed **W. L. Carpenter,** who asked to be relieved of the department head duties after 21 years in the position. Dr. Carpenter will resume his prior duties as the department's publications editor. Dr. Jenkins, a Rocky Mount native who grew up in Creedmoor, is currently in charge of educational media in the department. He has held posts with the State Department of Public Instruction and the Palm Beach (Fla.) Junior College . . . . Southern Pines *Pilot* editor and publisher **Sam Ragan** has been named chairman of the Cultural Center Committee of the Roanoke Island Historical Association. The association is planning to build a cultural center on Roanoke Island as part of the 400th anniversary of the first English colony in the U.S. . . . **Betsy Owens,** director of Growers' Peanut Food Promotions in Rocky Mount, has been elected president of the N.C. Home Economics Association . . . . **Jack Lail,** president and chairman of the board of Mid-State Plastics in Randolph County, has been named North Carolina Small Businessman of the Year by the Small Business Administration. The Seagrove resident co-founded the firm in 1971. Its 150 employees handle injection molding of plastics, including medical components and parts for kitchen appliances and power tools . . . . **Evelyn P. Lloyd,** a Hillsborough pharmacist, has been given the 1980 A. H. Robins "Bowl of Hygeia" Award for outstanding community service from the N.C. Pharmaceutical Association . . . . **A. F. (Bud) Amburn Jr.** of Edenton, publisher of the *Chowan Herald,* has been elected secretary of the newly organized National Extension Advisory Council. The group is composed of volunteers who wish to communicate with Congress and national leaders on behalf of the Agricultural Extension Service. Amburn is also chairman of the N.C. Extension Advisory Council . . . . **Gene B. Lanier,** a Burgaw tobacco farmer, has been named chairman of the U.S. Department of Agriculture's Flue-Cured Tobacco Advisory Committee.

Jenkins

Solar Energy Gets A Leg-Up in Maggie Valley

New Design Tested on Resort Greenhouse

Maggie Valley businessman Robert H. Williams says he doesn't know very much about solar energy, but he's come up with a new type of solar collector which could help alleviate two of the technology's biggest problems: high cost and low efficiency.

Williams believes his new design is far more efficient and less expensive than conventional collectors.

The invention has been in operation for the past 18 months and it's working beautifully, he says.

He applied for a patent last October, and while preparing that application saw dozens of new ideas for solar collectors. None were like his.

The design is quite simple: Long, thin strips of smoothly curved copper are laid between sheets of fiberglass. Water flows continuously in the trough formed by the curved strips.

Williams said the shape of the strips is the key to the design's success.

"That's a cheap way of following the sun," he explained. "Because it's curved, the sun's rays hit it and start heating as soon as the sun comes up in the morning and keeps at it until dark. No sunlight is missed."

The water gets hot quicker and stays hot longer, he said.

The hot air that gets trapped between the fiberglass is also used. Williams pumps it over a 55-yard pile of rocks under the floor where the heat is stored fo release at night.

"That's another unique thing about it," he said.

Williams is a partner in the "Meadowbrook Resort" with his wife, Saye, and daughter, Karen. Nestled in the North Carolina mountains near Maggie Valley, the resort features apartments, cabins, motel rooms, a gift shop and lots of greenhouses.

The working model of his sola collector is atop one of the greenhouses. He built the whole thing himself, with the help of his family, in the winter of 1978.

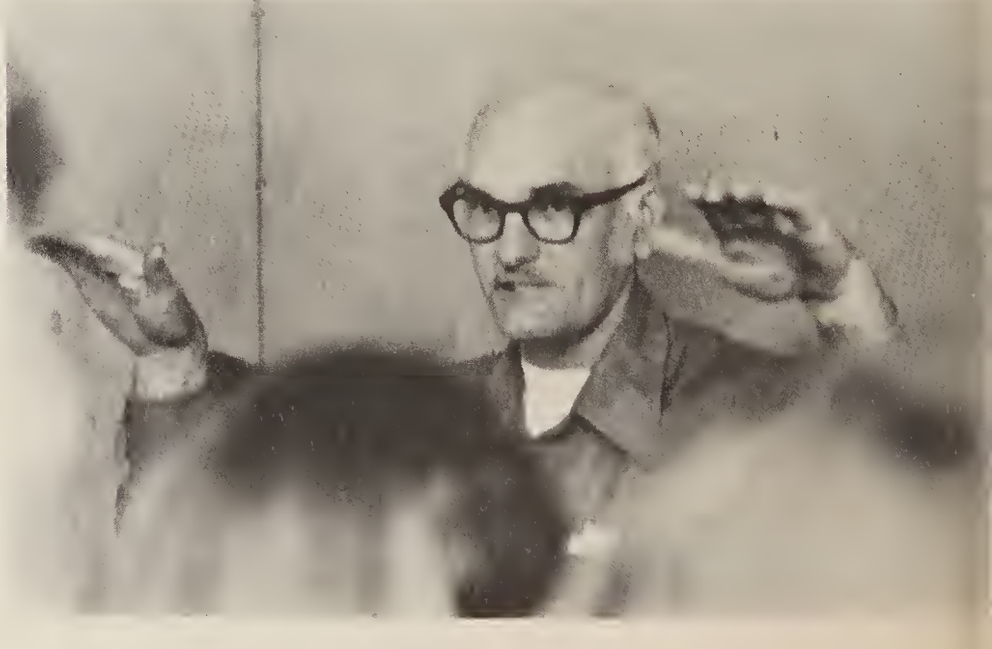
"I don't know any more about solar energy than the man-in-the-moon," he said. "I just got interested in it. I knew I could do it myself."

Every phase of the solar heating system is handled automatically. The water, stored in a 10,000-gallon tank, is automatically released when needed, as is the stored waste heat.

"At first I was up there every day to see about it," Williams said. "Now, it's taken for granted."

He said they're getting a savings of about 66 percent, which is much better than a conventional system could be expected to do.

Initially, Williams planned to put in a conventional system. He



Robert Williams of Maggie Valley describes his new solar collector design to a group of sightseers at the experimental greenhouse at Meadowbrook Resort. The solar greenhouse, which was built by the Williams family, has become such a popular attraction with students and tourists that special tours have been scheduled. The resort is served by Haywood Electric Membership Corporation, Waynesville.

Text and photos by Associate Editor Kemp Ward.

even had an engineer to come out and tell him what would be required. The high cost and massive space demands scared him off. That's when he got to thinking and decided he could do the job himself.

"I don't know any more about solar energy than the man-in-the-moon. I just got interested in it."

—Robert H. Williams

The solar greenhouse has gained such a reputation that sightseers have disrupted normal operation of the resort.

"It got so we had so many people coming in saying, 'we want to see the solar greenhouse,' that we couldn't get anything done," he said. "So we set aside Tuesdays and Thursdays at 2 p.m. for tours. Lots of people come up here to see it."

Area colleges often send classes over to examine it and to discuss it with the Williams family.

The family started the resort 18 years ago, with four cottages on a 1,000-acre tract that has been in the Williams family for nearly a century.

It features several greenhouses, with most of the plants being sold wholesale.

Taking care of the plants is Karen's job. In fact, the whole greenhouse operation sprang from a miniature greenhouse Williams built for Karen a few years ago.

As a high schooler, she had visited a friend whose family was in the plant business and when she returned to Maggie Valley, she wanted a greenhouse, too.

At first, she just played with her new hobby. Then she started raising plants to put out around the resort, which had begun to grow.

It wasn't long before the plaything turned into a thriving business.

Now that Williams has found a plaything of his own in the form of the newfangled solar collector, the resort could well be on its way to hatching still another successful backyard business.

LEFT — Karen Williams explains how the greenhouse operates to a group of Haywood Technical Institute students. BELOW — The Haywood Tech students tour the greenhouse, one of several at the resort which produce plants for wholesale market.

Vacation Super Specials For Carolina Country Readers

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The Tar Heel At Three Mile Island

By Mae Woods Bell

Three-fifty-three a.m. Wednesday, March 28, 1979. Three Mile Island Nuclear Facility. A malfunctioning valve causes a shutdown of two pumps in the secondary feed water system (a separate unit that cools the water circulating through the reactor core), triggering a chain reaction of mechanical and human errors.

For several hours thereafter conflicting reports and claims create panic in Central Pennsylvania. The air is full of staccato bulletins on the deteriorating status of the reactor and the continuing uncontrolled emissions of radioactive steam and gases from the plant. In Pennsylvania thousands of persons jam the Interstates and the Turnpike, all fleeing the uncertainty of a poison they cannot see.

Even as people continue their exodus, Harold Denton, director of the Nuclear Regulatory Commission's Office of Reactor Regulations, is on his way to the disaster site. Before long his calm, reasoning and softly Southern voice, increasingly familiar face and assured composure ease the lives of those around Harrisburg and the worried multitudes throughout the country who saw their own future spread out before them.

Just who is this man who almost single-handedly through his poise, calm and knowledge kept the country from panic during those anxious days of late March and early April a year ago — the North Carolina native whom President Carter chose as his personal representative in an unprecedented and critical emergency?

Denton Inspires Confidence

Several months before Three Mile Island, in a newspaper feature in his home town, he was characterized thus: "His quiet, assured objectivity, knowledge and efficiency inspires confidence. One feels, immediately, that if we must have nuclear reactors, we are safer for having Denton watching over them — and us."

Even as a youngster, Denton inspired confidence in the adults with whom he came in contact. His first job was that of a newsboy for the local paper, but that did not last long. His sense of responsibility and inquiring mind attracted the attention of the paper's business manager, and soon thereafter he was offered an after-school and summer job as a press photoengraver. He graduated from Rocky Mount High School in 1954, and went on to earn a degree in nuclear engineering at North Carolina State University.

After graduation, Denton was employed by DuPont at their Savannah River reactor. Later he was hired by the old Atomic Energy Commission, since renamed the Nuclear Regulatory Commission (NRC.)

Denton is a rarity in our peripatetic society: he has had but two employers since graduation. He has worked his way up through the ranks of the NRC, and is pleased with his accomplishments.

After Denton went to Washington in 1963 to join the Division of Compliance of the Atomic Energy Commission there was a managerial change in the group. The Atomic Energy Commission (AEC) was split into the Nuclear Regulatory Commission (NRC) and the Energy Resource and Development Administration (ERDA) to separate the regulatory and promotional functions. Denton, who is neither pro- nor anti-nuclear fits logically into the regulatory slot.

By definition and direction the NRC is neutral, and the Office of Nuclear Regulation within the NRC leans over backwards to keep it that way — a fact that Denton feels most Americans do not understand.

"We are considered by the public at large to be pro-nuclear," Denton says. "Actually we are neutral — we have to be. Congress has commissioned us to examine applications and issue licenses to reactor plants if they are shown to be safe. Thousands of man hours go into preliminary examinations of each application. We have turned down applications, but there is never much news-media coverage when we do. That's unfortunate; the public might feel more comfortable if they realized that we do not license unless we judge that safety is assured."

But at Three Mile Island something unforeseen went wrong, and the threat of an inside explosion of the reactor vessel and the possible melt down of the overheated core was real, not fanciful speculation.

"By the night of March 31st," Denton explains, "if everyone felt complacent and did nothing, in five days there would have been overwhelming reason to become concerned. That was one of the tougher things, I think — to walk this middle ground and say, 'It *is* serious, and things have *got* to be done,' but it doesn't mean that it is an imminent threat in the near term. If you see a little water pouring over a dam — that doesn't mean the dam is going to fall immediately, but it does mean that you had better start lowering the water level behind the dam."

Denton says the concerns of Harrisburg residents were not unfounded. "This was the most serious accident that we have ever had in a licensed plant in a cumulative 450 reactor years. We've gone this far without having any core damage at all. However, there was danger, no doubt about that."

Danger or not, he stayed at the site, getting little rest, using the judgment of a Solomon and the diplomacy of a Dag Hammarskjold to keep a fine balance between urgency and panic. Denton's daily routine at Harrisburg during that harrowing time was anything but routine both before and after the visit from the President and Mrs. Carter.

"Every day was different," he said, "but on a normal day I'd leave about seven, get to the plant, get a status report, find out what was happening, call the President at a quarter to eight, continue to work on whatever the problems were and by 9:30 call my commissioners and inform them as to what had happened to date. Usually by that time I had several flaps going in the plant that needed attention.

"Local congressmen came by and sometime during the midday the NRC Director of Publicity would try to have a press briefing." Along with everything else, Denton had to be on his toes for that. "We did one of those press conferences a day until April 6. Then after the press session

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Reprinted from The State **magazine.**
Mae Woods Bell is a Rocky Mount free lance writer.

I'd go brief the governor at night and come back to the plant and stay there until around midnight." He'd finally get around to calling home around two or three o'clock in the morning. For days his worried family received most of their news of his activities through the press and television. As the crisis atmosphere surrounding events at the plant diminished, Denton was still briefing the President and Governor Thornberg daily.

After things cooled down at Three Mile Island, Denton was asked whether that accident might represent the death knell for the future of commercial atomic power generators. He responded that he is indifferent to the question.

"As a regulator we are indifferent to whether it is or not. We establish this criterion: if people want to build nuclear plants and pass our standards, we'll license them. But society has to decide if it prefers nuclear or coal or no power. I look at the potential of atomic power as a question of alternatives. The first question is : does the country need more power — but that is a question for the public utilities to decide. The second question is: if you need it, how are you going to generate it? Coal versus nuclear versus solar versus geothermal?"

Denton pointed out that "There are only two fuels that we have in abundance, coal and uranium. They both pose risks. That's not to say that coal risks are acceptable to society; a lot of efforts are being made on those, too, and I am sure we will reduce nuclear risks after this accident. We've learned from it. It took railroads about 75 years in England to be accepted. Trains were introduced about 1850 and people thought they were unsafe. Gradually they demonstrated that they were a safe mode of transportation."

Nuclear Waste Is Industry's "Achilles Heel"

Denton feels that the disposal of nuclear waste is the "Achilles heel" of the industry. He feels that it can be disposed of safely, but it is a matter of educating some community to accept it. When he spoke at North Carolina Wesleyan College in Rocky Mount recently, and was asked why the government did not anticipate the problem of waste disposal he answered, "The Atomic Energy Commission, of course, had other priorities — making bombs, for instance, was one of them. It's like other problems with disposal — you use the paper first and then worry about where to dispose of it."

There is also the problem of reprocessing spent fuel. It was feared that other countries could siphon off other weapons-grade material under the guise of reprocessing, which also accounts for the fact that the foreign countries must return all their nuclear waste to us for disposal.

His feeling is that nuclear fission is merely a transitional source.

"It is a way to get from here to the year 2000. There are too many drawbacks for it to be the ultimate answer. The answer lies in nuclear fusion or some undiscovered source of fuel."

"Three Mile Island has been a cheap lesson in terms of public health, but a very expensive lesson for the power companies," said Denton, as he cited new requirements for handling accidents: college graduates in thermodynamics around-the-clock in control rooms, off-site emergency response centers, and eventually a remote monitoring system for critical data such as temperature, pressure and radiation release from the reactors.

"To prevent another Three Mile Island the Nuclear Regulatory Commission is paying more attention to operator training," Denton said. "A past emphasis on equipment has now been shifted to better training of operators. I think reactors can be operated safely, but it will take a real commitment on the part of the utilities and the NRC to make it happen. If you look at what we are doing, and what we were doing a year ago, it is remarkably different."

When asked if the blame could be pin-pointed at Three Mile Island, Denton replied that it would be difficult to do. "A hydrogen bubble that had developed in the container vessel resulted from operator failure, however. The man on the board cut off the system which would have prevented a chain reaction that led to its formation." He added the bubble could not have exploded, noting that reports that it might do so led to needless anxiety among local residents. "Containment is built into all reactors," he said.

Denton has on several occasions shown an uncanny sixth sense when it came to shutting down or refusing to license plants. Ironically, at one point when he ordered several nuclear plants closed because of potential vulnerability to earthquake damage of certain components, he was roundly criticized by those who felt he was overly cautious, thereby contributing to the downfall of the local economy. A few days later there were earth tremors at that site.

Family Accepts Denton's National Attention

Just as the Three Mile accident threw the nation into a tailspin, it brought down upon the Denton household all the pressures of instant national attention. The family has gradually gotten used to having people come up to Denton and ask for his autograph, although it was quite a shock to see his portrait and related comments on T-shirts all over Pennsylvania.

In the year since Three Mile Island, Denton's life continues to be hectic and peripatetic. His family — high achievers all — are taking Denton's prominence in stride: wife Lucinda Oliver Denton continues to teach science in Bethesda and continues to receive awards for her outstanding accomplishments in her profession. Daughter Liz attends Salem College on a full academic scholarship, and Hal and Spencer with their after-school jobs and athletic interests are little changed by their father's fame.

They live in a comfortable split-level home in Rockville, Md., which they share with a brace of spider monkeys, a poodle, a cat, two tarantulas, two generations of garter snakes, and a skunk named "Joy Chanel Shalimar." At one time or another, they have also housed a one-eyed, brain-damaged screech owl, baby robins, an iguana, various amphibians including one enormous Bufo marinus toad, and scores of tropical fish.

The large and varied menagerie reflects the whole family's involvement with one another and Lucinda Denton's profession. "I was completely impressed with Harold's appointment as director a couple of years ago," said Mrs. Denton before Three Mile Island. At that time she added, "If he ever gets another promotion he'll no longer have to help clean cages. I've already released him from the chore of sorting socks for the laundry."

Since Three Mile Island, Denton spends a lot of time away from home, speaking on college campuses and at public debates and forums. The family tries to make time together count — sailing on the Chesapeake, camping on North Carolina's Outer Banks, playing ball and enjoying the round of concerts and plays offered at Kennedy Center. Not all is play, however, for Denton is adept at fixing leaking faucets, sagging rain gutters and insulating the attic.

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JOHNNY CASH - PC-9478 ALBUM $4.00
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ENGELBERT HUMPERDINCK - PE-34381 ALBUM $4.00
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8 TRACK TAPE - 8PEA-34381 - $4.98

SONNY JAMES - PC-35626 ALBUM $4.00
When The Snow Is On The Roses; Come On In; Heartaches By The Number; You're Free To Go; Little Band Of Gold; A Mi Esposa Con Amor; Eres Tu; Building Memories; If She Just Helps Me Get Over You; Take These Chains From My Heart.
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GEORGE JONES - PE-34717 ALBUM $4.00
I Wanta Sing; Please Don't Sell Me Anymore Whiskey Tonight; They've Got Millions In Milwaukee; If I Could Put Them All Together; I Love You So Much It Hurts; Rest In Peace; Bull Mountain Lad; Old King Kong; You've Got The Best Of Me Again; It's A 10-33.
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GEORGE JONES - PE-35414 ALBUM $4.00
Bartender's Blues; I'll Just Take It Out In Love; If You Loved A Liar; Ain't Your Memory Got No Pride At All; I Gave It All Up For You; I Don't Want No Stranger Sleepin' In My Bed; I Ain't Got No Business Doin' Business Today; Leaving Love All Over The Place; It'll Be Me; Julianne.
8 TRACK TAPE - 8PEA-35414 - $4.98

CAROLE KING - PE-34946 ALBUM $4.00
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MICHAEL MURPHY - PE-33290 ALBUM $4.00
Wildfire; Carolina In The Pines; Desert Rat; Wild Bird; Blue Sky Riding Song; Medicine Man; Secret Mountain Hideout; Without My Lady There; Night Thunder; Rings Of Life.
8 TRACK TAPE - 8PEA-33290 - $4.98

WILLIE NELSON - PC-34092 ALBUM $4.00
That Lucky Old Sun; If You've Got The Money, I've Got The Time; A Penny For Your Thoughts; The Healing Hands Of Time; Thanks Again; I'd Have To Be Crazy; Amazin Grace; The Sound In Your Mind; Funny How Time Slips Away; Crazy; Night Life.
8 TRACK TAPE - 8PCA-34092 - $4.98

THE OAK RIDGE BOYS - PC-35302 ALBUM $4.00
The Baptism Of Jesse Taylor; Loves Me Like A Rock; Why Me; Rhythm Guitar; Freedom For The Stallion; Heaven Bound; He's Gonna Smile On Me; There Must Be A Better Way Where the Soul Never Dies; Family Reunion.
8 TRACK TAPE - 8PCA-35302 - $4.98

JOHNNY PAYCHECK - PE-35045 ALBUM $4.00
Take This Job And Shove It; From Cotton To Satin; The Spirits Of St. Louis; The 4-F Blues Barstool Mountain; Georgia In A Jug; The Fool Strikes Again; The Man From Bowling Green; When I Had A Home To Go To Colorado Kool-Aid.
8 TRACK TAPE - 8PEA-35045 - $4.98

RAY PRICE - LE-10061 ALBUM $4.00
Introduction And Theme; Night Life; Lonely Street; The Wild Side Of Life; Sittin' And Thinkin'; The Twenty-Fourth Hour; A Girl In The Night; Pride; There's No Fool Like A Young Fool; If She Could See Me Now Bright Lights And Blonde Haired Women; Are You Sure; Let Me Talk To You.
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CHARLIE RICH - PE-32247 ALBUM $4.00
Behind Closed Doors; If You Wouldn't Be My Lady; You Never Really Wanted Me; A Sunday Kind Of Woman; Peace On You; The Most Beautiful Girl; I Take It On Home; 'Til I Can't Take It Anymore; We Love Each Other; I'm Not Going Hungry Anymore Nothing In The World (To Do With Me).
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MARTY ROBBINS - PC-35446 ALBUM $4.00
Please Don't Play A Love Song; Confused And Lonely; Look What You've Done; You're Not Ready For Me Yet; Another Pack Of Cigarettes, Another Glass Of Wine; My Elusive Dreams; Jenny; Oh, Regina; Touch Me With Magic; The Performer.
8 TRACK TAPE - 8PCA-35446 - $4.98

TOM RUSH - PC-33907 ALBUM $4.00
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NO TAPE AVAILABLE.

DOC SEVERINSEN - PE-34078 ALBUM $4.00
I Wanna Be With You; Night Journey; The World's Gone Home; Spanish Dreams; You Put The Shine On Me; Now And Then; Little Tiny Feets; Open The Gates Of Love.
NO TAPE AVAILABLE.

CARL SMITH - LE-10586 ALBUM $4.00
Wabash Cannon Ball; The Great Speckled Bird Pins And Needles; Lonely Mound Of Clay The Precious Jewel; Waltz Of The Wind Streamlined Cannon Ball; Blue Eyes Crying In The Rain; The Wreck On The Highway; Fire Ball Mail; Wait For The Light To Shine.
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TANYA TUCKER - PC-33355 ALBUM $4.00
Delta Dawn; Blood Red And Goin' Down The Jamestown Ferry; What's Your Mama's Name; I Believe The South Is Gonna Rise Again; Would You Lay With Me; Love's The Answer; Rainy Girl; No Man's Land; The Man That Turned My Mama On.
8 TRACK TAPE - 8PCA-33355 - $4.98

How to Cut Your Home Energy Use

Ten percent of the energy used in homes today goes into lighting, cooking and running small appliances.

While a 30 percent reduction in the amount of energy used for these applications may mean only 3 percent overall savings over a 12-month period, the methods for effecting the savings require little or no expense.

To help save you money and energy in the kitchen, use these tips from the U.S. Department of Energy:

- Install a flow restrictor in your kitchen sink faucet. By reducing the amount of water in the flow, you use less hot water and save the energy that would have been required to heat it. The lower flow pressure is hardly noticeable.
- If you need to purchase a gas oven or range, look for one with an automatic (electronic) ignition system instead of pilot lights. You will save a considerable percentage of gas use.
- If you have a gas stove, make sure the pilot light is burning efficiently — with a blue flame. A yellowish flame indicates an adjustment is needed.
- Never boil water in an open pan. Water will come to a boil faster and use less energy in a kettle or a covered pan.
- Keep range top burners and reflectors clean. They will reflect heat better, and you will save energy and money.
- Match the size of the pan to the heating element. More heat will get to the pan; less will be lost to surrounding air.
- If you cook with electricity, get in the habit of turning off burners several minutes before the allotted time. The heating element will stay hot long enough to finish cooking for you without using more electricity. The same principle applies to oven cooking.
- When using the oven, make the most of the heat from that single source. Cook as many foods as you can at one time. Prepare dishes that can be stored or frozen for use later or make all-oven-cooked meals.
- Watch the clock or use a timer. Don't continually open the door to check food. Every time you open the door, heat escapes and your cooking takes more energy.
- Use small electric pans or ovens for small meals rather than kitchen range or oven. They use less energy.
- Use pressure cookers and microwave ovens if you have them. They can save energy by reducing cooking time.
- When you have a choice, use the range top rather than the oven.

The growing popularity of dishwashers also contributes to increased energy use. To save money and energy with your dishwasher, use these tips:

- Let your dishes air dry. If you don't have an automatic air-dry switch, turn off the control knob after the final rinse. Prop the door open a little and the dishes will dry faster.
- Dont' use the "rinse hold" on your dishwasher. It uses three to seven gallons of hot water each time you use it.
- If you rinse before loading into the dishwasher, use cold water.
- New dishwasher purchasers should look for models with air-power and overnight dry settings. These features automatically turn off the dishwasher after the rinse cycle. This can save you up to 10 percent of your total dishwashing energy costs.

Scheduling use of these energy-intensive appliances is another method of saving energy. You can reduce peak load demand by using appliances during off-peak hours, usually in the early morning or late evening. By avoiding use of appliances in the late afternoon and early evening hours, you cut back on the total energy demand, especially that of electricity. In many instances, generating facilities used to meet peak demands are backup facilities which are not as energy efficient as the equipment which produces the base load power.

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Country Kitchen

Barbecued Chuck Roast

It's barbecue time once again, thank goodness, and we can all enjoy the outdoors after a cold, snowy winter. We have all eaten barbecued chicken on the grill, and have consumed lots of hot dogs and hamburgers, too, but this barbecued roast, submitted by Betty Seniw of Concord, offers us a tasty and different barbecued treat. It's perfect for any kind of cookout, and so easy!

COUNTRY KITCHEN RECIPE

Submitted by Betty Seniw of Concord

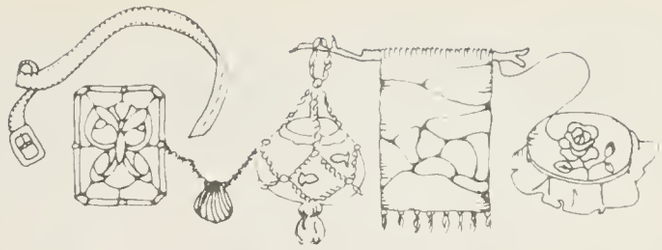
BARBECUED CHUCK ROAST

3 lb. chuck roast, 1½-2" thick
1 tsp. monosodium glutamate (Accent)
1/3 C. wine vinegar
¼ C. catsup
2 Tbl. soy sauce
2 Tbl. oil
1 Tbl. Worcestershire sauce
1 tsp. prepared mustard
1 tsp. salt
¼ tsp. pepper
¼ tsp. garlic powder

Sprinkle both sides of roast with monosodium glutamate. Place in shallow baking dish. Thoroughly combine the remaining ingredients. Pour mixture over roast and marinate for 2-3 hours, turning once or twice. Place roast on grill or broiler pan and broil six inches from heat. Turn roast and baste with marinade every 10-15 minutes. Broil a total of 35-45 minutes for a medium rare roast or until desired doneness.

SPECIAL SUMMERTIME OFFER: We have been deluged with delicious dessert recipes during the past several months, but would like to receive some interesting meat, vegetable and salad recipes. Recipes other than desserts which are mailed by Aug. 31 and accepted for publication will bring a $10 fee — double our usual rate! Send your recipes to COUNTRY KITCHEN, P.O. Box 27306, Raleigh, NC 27611.

Do Your Own Things



No-Sew Patchwork

Here's an updated version of America's popular folk-art, patchwork design. We've created a project that only requires fabric, scissors, our pattern, and a little glue. The Gingerbread House pictured here makes an attractive wallhanging that suits any decor.

One of the drawbacks to patchwork design has always been the time-consuming stitchery involved. But by using the new fabric glues on the market, anyone who can cut a piece of cloth becomes a "folk-artist". Our step-by-step plan has construction photos, concise directions, and a complete materials list for your convenience.

To obtain #585 NO—SEW PATCHWORK, send $2.25 (includes 1st class postage & handling) by check or money order. To obtain our idea book, U-Build PATTERNS FOR BETTER LIVING, send $1.75. Address all orders to:

CAROLINA COUNTRY Pattern Dept.
P.O. Box 2383, Van Nuys, California 91409

HANDY TIP: When working with craft projects, an old egg carton makes a dandy place to store pins, sequins, etc. The top section makes a nice compartment for storing glue and ribbon.

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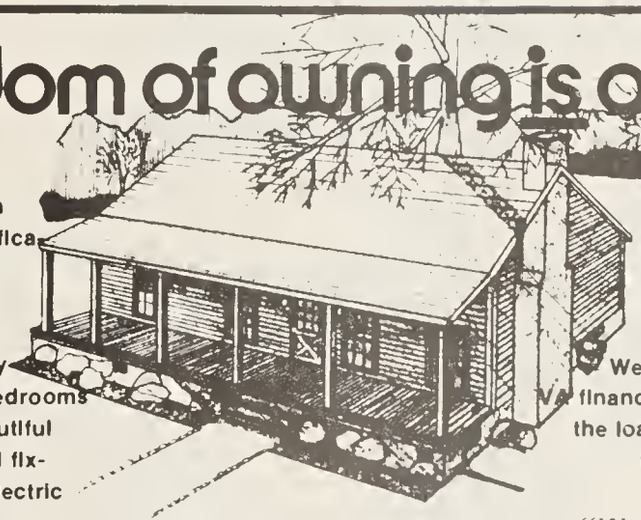

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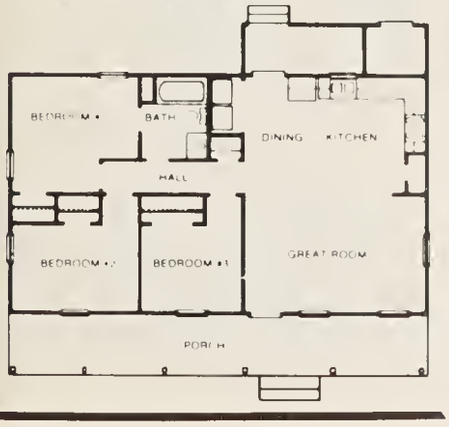

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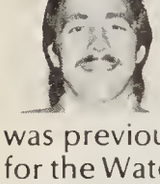
Three New Employees Join Statewide EMC Organization

An experienced utilities finance and accounting specialist, a veteran Electric Membership Corporation employee and an electrical engineering graduate of Geogia Tech have joined the staff of the North Carolina statewide EMC organization.



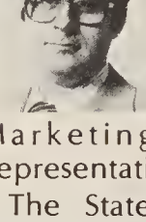
Oreste V. Baffi, a New York native, has joined the organization in the new post of Manager of Finance and Accounting. He was previously director of finance for the Water and Power Authority in St. Thomas, Virgin Islands, an autonomous public corporation which provides portable water and electric power for the territory.

An accounting graduate of Wagner College in New York, he has also held posts in the manufacturing and petroleum industries.

In his position, Baffi will oversee all accounting and finance operations for the three corporations of the statewide organization:

N.C. Association of Electric Cooperatives (N.C. AEC), N.C. Electric Membership Corporation (N.C. EMC) and Tarheel Electric Membership Association (TEMA).

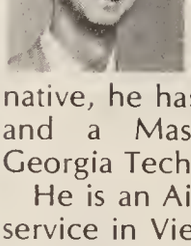
N.C. AEC functions as the trade association for the state's 28 electric cooperatives. N.C. EMC is the power supply generating and transmission operation and TEMA is a central materials purchasing and supply cooperative.



The veteran EMC employee is Wayne Russell, former coordinator of purchasing at Crescent EMC, Statesville, who has joined TEMA as Marketing and Technical Representative.

The Statesville native has an Associate of Arts Degree from Mitchell Junior College. He is married to the former Sonja Miller of Statesville and they have two children.

Russell succeeds Jerry McFelea of Lenoir, who resigned to become the chief executive of South Carolina's statewide co-op materials supply operation.



The Georgia Tech graduate is David Springs Jr., who has joined N.C. EMC as an engineer. A Doraville, Ga., native, he has both a B.S. degree and a Master's degree from Georgia Tech.

He is an Air Force veteran with service in Vietnam. He is married to the former Ilma Agrenot of Madrid, Spain.

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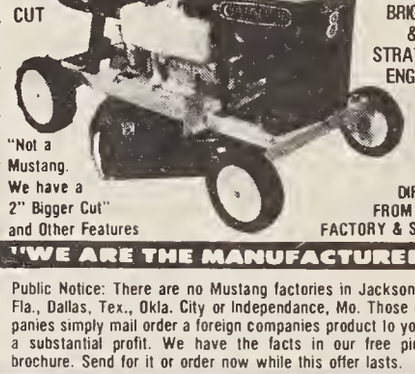

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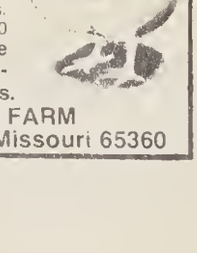

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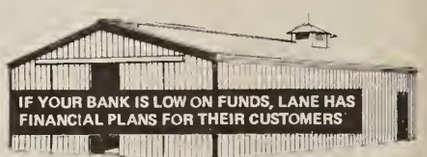

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CC-6

Smithsonian Scholars Learn Much About Man's Early Development

The Smithsonian Institution in Washington, D.C., became a classroom for 15 top high school students from around the state for three days in April as they participated in a special Smithsonian Seminar for rural youth.

Sponsored by the N.C. Association of Electric Cooperatives and the Smithsonian, with special aid from the Z. Smith Reynolds Foundation, the seminar was the final one in the current series of three which began as a pilot program in spring, 1979.

Entitled "Human Development: A Zoological Perspective," the seminar focused on the development of man from prehistoric times to the present.

The first day was spent at the National Zoo, observing animal behavior, and the group also happened to be there for the morning feeding of the giant pandas from China, one of the biggest tourist attractions in the city.

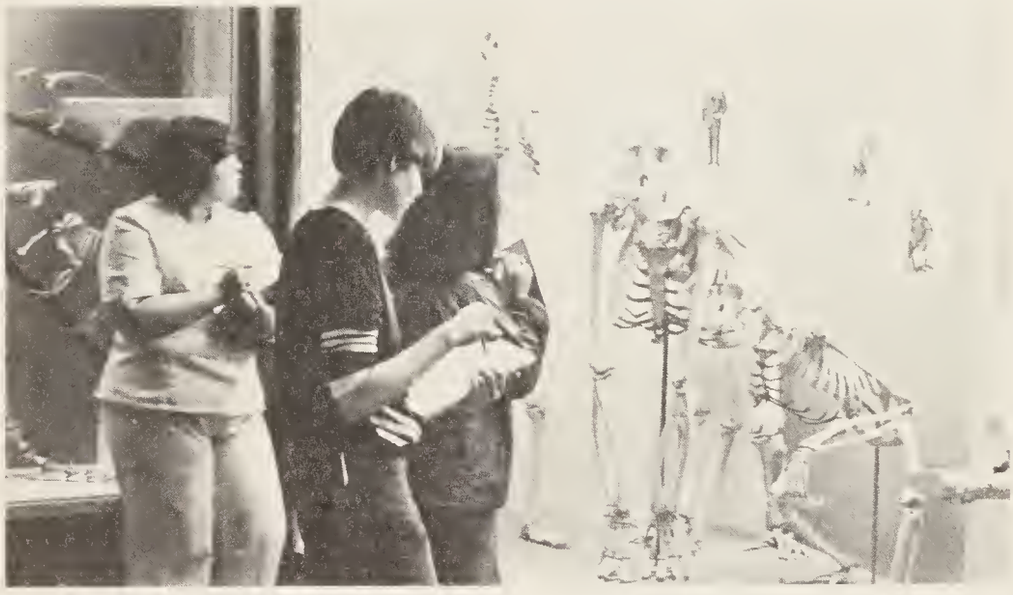
The next two days were spent at the Museum of Natural History in the anthropological halls, tracing the development of man and his culture down through the ages. The students were given a list of questions which could be answered by studying the exhibits, and then presented their findings to the entire group.

They also visited the National Gallery of Art and had a special tour of the National Air and Space Museum.

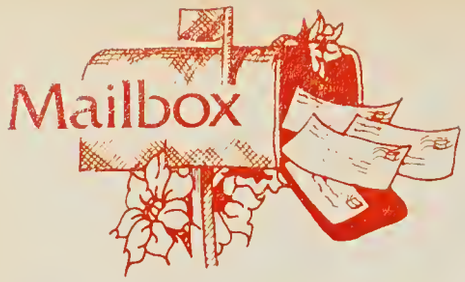
During the evenings, the group had a session on careers in science at the National Academy of Sciences and attended a performance of the American Ballet Theatre at the John F. Kennedy Center for the Performing Arts.

Another highlight of the week was a breakfast meeting with Senator Robert Morgan in the historic East Wing of the Capitol.

The other two seminars in the series were, "The Planet Earth" in May, 1979 and "The Quest for Beauty" in October, 1979.



ABOVE—A study of the development of bone structures was an important part of the seminar. From left, Cindy Pittman of Jacksonville, Larry Martin of Fayetteville and Jean Baucom of Marshville.
LEFT—A group of scholars studies an exhibit depicting the lifestyle of an earlier culture. From left, Terri Griffin of Albemarle, Paul Eason of Macclesfield and Carolyn Cameron of Sanford.



FUTURE GENERATIONS DESERVE MORE THAN A WORLD WITHOUT BURNABLE FUEL

May I be permitted to refute some of the statements made by Roy Neal Grose in his letter (April issue)?

Firstly, some nuclear wastes do remain toxic for long times, but so does the naturally occurring uranium which is loose in the environment, put there by God. Uranium has a half-life approximately 30,000 times longer than plutonium and has nearly the same toxicity to man. The nuclear industry has no intention of scattering its waste in the environment, nor does it intend to bury it a few feet in ordinary cans as the chemical industry has been doing for years with its waste — which can remain toxic forever. What does Mr. Grose suggest we do about the million tons of radium (half-life 1,600 years) which is loose in the top 300 feet of the Earth we live on, remembering that radium is more toxic than plutonium?

Is Mr. Grose aware that the EPA now rates the sources of radiation hazard to man as being 1) medical radiations, 2) dental radiation, 3) coal-burning plants, in descending order of hazard, and estimates that even using modern cleaning of a coal-fired plant, it will cause about 2,000 times more cancers than a nuclear plant?

Other Nations Push Nuclear

Does Mr. Grose know that all the major industrial nations, except the USA, are pushing ahead with nuclear power as fast as they can because they have concluded that the hazards from using nuclear fuel are less than those from fossil fuels and that a continued dependence on oil is a disastrous route to follow? They have reached this conclusion having analyzed all the evidence that is available to the USA.

Mr. Grose also writes about the "subsidy" to nuclear power in the form of federal money for research and development. He ignores federal money being spent for research and development, solar energy, etc.

On waste disposal, other countries are either doing it successfully or are in the process of doing it. It is only the USA that considers it to be "impossible". Perhaps it is in the USA, but the impossibility is not technical, it's political.

Finally, Mr. Grose writes that "we have no right to pass on our problems and expenses to future generations" —such as, for example, an Earth on which all burnable fuel has been burnt and no other energy source of comparable power developed?

R. F. Saxe
Raleigh

ART GORE'S BOOK STRIKES MEMORY-PACKED RESPONSE

I am one of the fortunate possessors of a book mentioned in your February issue called *Speak Softly to the Echoes* by Art Gore. I hope from time to time you will add his illustrated stories like "Long Pants," and "Brown Sugar."

Not only am I elated with my priceless possession but wish to urge all Tar Heels to get a copy while it is still $25. I am married to a native son, but the pictures and places and well-written nostalgic stories strike a memory-packed response in my Pennsylvania Dutch background!

I hope Mr. Gore's supply hasn't run out until more of you can obtain this treasured book. Tell him I recommend it! He knows how I feel about his book and him in sharing this with us.

Frederika Maples
Morganton

DESPITE ENERGY CRISIS, U.S. CAN PUT THINGS "BACK IN PLACE"

I do not know if you would like publishing letters from people or not, but I feel views from everyone is very important to a country that is messed up like ours.

Back in 1936, electricity was just starting to come about, and all that was made came from water-powered generators, but for some reason these plants were changed to diesel power and water was no longer used. The flour mills were water powered, but changed to electric, and just after World War II this country became a mechanized country, the railroads changed from steam to diesel power, the industries changed from coal to oil for making steam, the automobile industries wanted people to have two and three autos to ride in, and gasoline was plenty — no worry. In the 1950s, there were small cars ranging from 120 cu. in. up but the people seemed to want more power in their cars. They liked to spin wheels so the cars got bigger and by 1971 an average engine was 360 cu. in. and all cars became gas hogs.

In the 1950s, all sorts of home appliances came to being until all homes had to have these things and the house-wife had to have them, but their utility bills starting to grow. The housewife had to find a job to help pay the bills. Things now at this point had got out of hand, more people were eating out, it was costing more for people to live. Food, clothing, fuel, and everything was going up, money was easy to borrow, charge accounts were easy to get, and now it has caught up with everyone.

The oil crisis is very bad but myself I feel we have done it and we are the ones to suffer, but I also feel things could be put back in place. First off, I feel industries should change back to coal, the railroads should go back to steam and use coal, the building of highways should slow way up, until pipe lines can be built so we can get our own oil to the refinery and have it processed. I do not feel we have a great fuel shortage, because we are not using the oil we have out of Alaska or Wyoming, and if some of these other things were changed I feel the oil crisis would start slowing down.

Electricity Safe, Economical

Now, I think electricity is the safest and most economical energy we can get today, because there is no waste unless we waste it ourselves. Of course, I would like to see it cheaper. As for solar heat, it is good to heat with but the cost of installation is far too much, and we need more incentives so we install solar heat. We should have some relief on our taxes that would allow us to depreciate the cost of it over a period of time. I still feel strong for the heat pump but not as an air-cooled system as this type system does not save the energy that a water-cooled system will. A water-cooled system will do both jobs — heating and cooling — where the solar system will only heat. I feel people are not educated on heating and cooling systems like they should be. They do not know what a watt is and this is what you pay for. Some of the systems installed are too small and resistance heaters have to be used, so the system might just as well be electric heat.

Wood May Not Be Answer

In the April *Carolina Country* there

was lots of stress made about more people burning wood, but I feel this is the wrong answer, as wood is selling at $100 a cord and fireplace inserts are selling at $800 and there is a great chance that there will be a wood shortage soon, as it has only been a few years since brown bags were hard to get. This is why I feel people are uninformed about things.

I know what I am saying is a long time off, but think thirty years ago, of how long it has been since things got out of hand. People had gardens, raised their hogs for meat, had chickens for meat and eggs, kept cows for milk and butter, and even raised beef. All of his has come to a halt, so really everyone must think of these things and start now trying to do something about helping themselves back in the proper direction. I know this year is a year of decisions on who to vote for, but it is a year when everyone should try to better themselves as no Congressman or President can do it for us. We have the choice.

Don't Listen To Politicians

I know lots of people listen to politicians and what they want to promise but they cannot always fulfill their promises to us, and this is where we have to think about who has done the most to help us do what we want to do, and that is keep a strong country free and self-supporting now and always.

James L. Rodgers
Rt. 1, Atkinson

ENJOYED THE MARCH ISSUE

I read your magazine for March belonging to a lady in the office and I enjoyed reading the *whole* thing. I said, "I must get that, too!" Please find enclosed my check for a one-year individual subscription.

Bernice Speas
Boonville

ELECTION ISSUE FAILED TO COVER VIEWS ON ABORTION

I enjoyed your "1980: A Year of Decision," but it failed to include an issue of far greater importance than energy. That issue is abortion — especially tax funded abortion.

Free energy for the rest of my life just couldn't justify my voting for someone that has no reverence for human life.

Ed Taylor
Brevard

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Agriculture deserves the credit.

Davidson's Fly-In & Threshers Reunion

A Celebration of A Bygone Era

By Rebecca Michael

You haven't lived until you've visited Brown Loflin's "Fly-In and Threshers Reunion" at Denton International Airport in Southern Davidson County.

The annual event will be held for the tenth time on June 28, 29, and 30.

Many old tractors and engines, each humming a merry tune, will be displayed, as the owners proudly show them off. Some of these belong to Loflin while others will be brought in especially for the three-day "Fly-In."

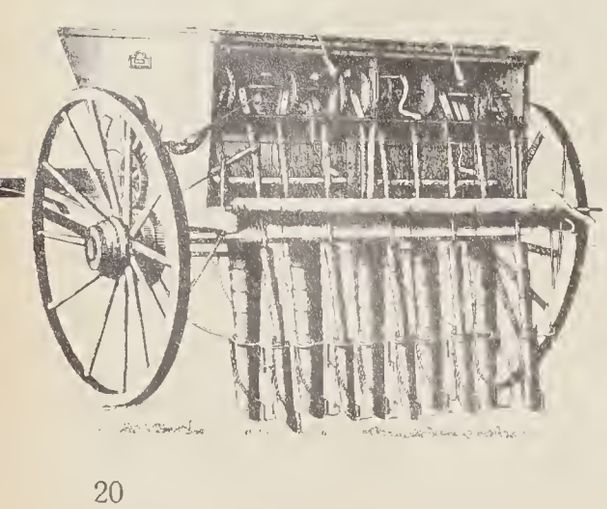
Begun To Support Rescue Squad

It all started in 1970, when Loflin set aside a few acres of land to be used as an air field. He and other community leaders invited airplanes to come in and offer rides over Denton as a July Fourth celebration. All proceeds from the rides would be donated to the Denton Unit Davidson County Rescue Squad. It proved so successful that it's been repeated each year.

In 1973, a wheat threshing machine was added. It was powered by a rare 1919 Frick steam engine. A 1919 Kissel truck and some wagons drawn by mules were used to haul in the wheat. A McCormick Deering tractor was used along with some mules to power the straw baling.

Through the years, the event's activities have grown steadily. In 1979, there were an estimated 400 exhibitors coming from as far away as New York and Florida.

Among the attractions were woodsplitting engine power by gasoline, a gold-crushing machine, a sawmill powered by a 1920s model wood-fired steam boiler, a steam-powered shingle-making device and a steam shovel.



"It's a place where the old can reminisce and the young can see the past."

—Brown Loflin

One exhibit drew more than passing interest from the spectators: an operating moonshine still. They weren't allowed a taste of its product, but they couldn't escape its aroma of soured slop.

One of the newest features of the "Fly-In" is the abandoned Methodist Episcopal Church South, which was moved from nearby Jackson Hill. Loflin leased the white, one-room frame building for 50 years for $1.

Church Inspired Timberlake Painting

It is the steeple of this beautiful rural church that inspired Lexington artist Bob Timberlake to paint his famous "Mr. Cicero's Steeple".

Cicero Badgett, who was chairman of the building committee when the church was constructed in 1908, designed the steeple.

On Sunday morning at this year's "Fly-IN," this little church will beckon for all to come and worship. The old pump from a church in the little town of Newsom, now extinct, will provide the music.

The pine pews, which Loflin shortened, to fit the church, also came from the Newsom Church. A local minister will deliver the sermon.

Plans call for antique autos to be parked in front of the church, recalling the bygone Sundays when such sights were common at rural churches.

Other buildings at the "Fly-In" site include an old store, where visitors can see Denton's original town switchboard; a music hall; airport hangar; steel exhibition building and several structures built from the wood of an old log house: a barn, blacksmith shop, cabin, corn crib and smokehouse.

A focal point of last year's event was a 50-ton steam locomotive which Loflin and his partner, Howard Latham bought in 1979.

About the Size of Tweetsie

"It's about the size of Tweetsie," Loflin said.

Built for the Navy in 1943 by H. K. Porter Co. of Pittsburgh, it has operated in both the Norfolk Navy Yard and in Charleston, S.C.

The locomotive went from Charleston to Blacksburg, S.C., in 1960 where it pulled an excursion train for the Blacksburg and there, Loflin brough it to Davidson County. Its price tag: $15,000.

It was placed on a track that's slightly longer than the engine and dubbed the Denton International Short Line Railroad. However, its name was soon changed to "Handy Dandy" in honor or the nearby hamlet of Handy.

The locomotive was merely sitting on display last year, but Loflin hopes to link it up with three cars this year. Plans are to eventually have the track encircle the airport and carry passengers.

Other attractions at the 1980 "Fly-In" will be airplane rides, a nightly performance in the music hall featuring country or religious music and home-cooked food.

Fine Cooks Feed Multitudes

The ladies in this area are fine cooks who're quick to seize an opportunity to feed hungry multitudes — all for a good cause.

They bring out plenty of fresh vegetables and old fashioned chicken pie, along with hamburgers and hot dogs, with proceeds going for the ladies' pet projects. Most of it will benefit the South Davidson Fire Department.

Loflin says the three-day event offers "a place and time where the old can reminisce and the young can see the past."

Rebecca Michael, 81, lives with her daughter, son-in-law and grandson at Rt. 1 Richfield, near the site of the annual "Fly-In and Threshers Reunion." She is a member of Union Electric Membership Corporation, Monroe. This is her second published story.

There is only one way to energy independence

That's to utilize fully and wisely all our energy resources, and to develop expeditiously those that look promising.

Vigorous conservation and greatly increased use of coal and nuclear fuels —along with a boost from hydropower—can probably get us through the next 50 years or so. For the long run, however, we'll need fusion, solar, wind, geothermal steam —all the so-called alternative energy sources—to keep our nation's economy healthy and free of energy constraints.

Once we recognize that conservation alone won't do the job—once we make some positive decisions about coal and nuclear, and get on with development of other sources—THEN we'll be on the road to energy independence.

We're All In This Together. EMC

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can save at least $100 worth of gas every year.

Call ahead to be sure you aren't wasting gas on an unnecessary trip. On the average, a wasted trip costs you a dollar's worth of gas.

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Ride a bike or take a hike. You'll feel more fit, and you'll have more money to spend when you get where you're going—since you didn't waste it on gasoline.

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This free booklet can show you a lot more easy ways to save gas and money. To get your copy write "Energy," Box 62, Oak Ridge, TN 37830.

ENERGY. We can't afford to waste it.

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Books

The Flim-Flam Man and Other Stories by Guy Owen. Moore Publishing Company. 203 pages $9.95.

The title of this new collection of short stories by Raleigh's Guy Owen is doubtless used because of the fame of the Owen novel, *Ballad of the Flim-Flam Man*. But it's an honest title. Of the 22 thoroughly enjoyable short stories in these two hundred pages, an even dozen star Mordecai Jones—the flimflammer himself and his guitar-playing sidekick, Curley Treadaway.

This team cons unsuspecting North Carolinians (and some from neighboring states) on everything from money belts that multiply cash to ornate Bibles to dogs alleged to be valued family pets.

It's all good fun. And reading this book will make Tar Heels feel very much at home, since Guy Owen writes about the places he used to know—even when he invents Cape Fear County. Real North Carolina localities also dot the pages.

Not all of the stories involve the flim-flammer. So we have hitch-hiking soldiers trying to get to the beach, a fine liars' contest, a man who thinks he's just devoured his prize fighting rooster, and a teacher who wants to be a partner in a bootlegging operation.

Guy Owen's craftsmanship, his years of collecting impressions about home folks, and his affection for his material show in every page. This is one we can highly recommend.

Eagles Have Bad Breath by Jack Aulis. Self-published. 36 pages. $4.

You know the axiom that many good things come in small packages. This very funny book can be described as an abbreviated version. The 36 pages include the cover and introduction.

But there is some very light-hearted reading here, amusing in a low-key way that many of us associate with Jack Aulis, the former columnist for the Raleigh *News and Observer*.

This is a book of humor more than a bird book, although it mentions birds on every page but one. One passage warns that "If you put up a birdfeeder you will attract a large variety of birds, the most frequent and permanent of which will be squirrels."

The title is taken from the opening treatment on eagles, and it's a handy label. It also tells us that this is no serious treatise, comparable to the encyclopedia approach of many books on our "feathered friends."

Jack Aulis is as interested in the personality of his subjects as in the wingspread, and has fun with the arrogant blue jay, the cedar waxwing (a "dandy"), the maneuverable hummingbird, the talented mocking bird and others — including owls that hoot and those that screech. He does bring out that the famed insect eater, the purple martin, is a swallow.

Jack's gentle approach to writing is known to many North Carolinians, through his years of newspapering in Norfolk, Elizabeth City and Raleigh. For the past three years he has been associated with ElectriCities of North Carolina, but he retains his deft touch with the written word.

This nice little volume is illustrated throughout with wood cuts by Jack's wife, Lois.

It's available through some bookstores, or it can be ordered from Eagle's Breath, Post Office Box 5114, Raleigh, North Carolina 27650. (No fooling, that's the real address!) If you order a copy, send $4.40 which will include sales tax and postage.

This would be an excellent gift, particularly for somebody who needs perking up.

—Frank Jeter Jr.

Rebel Powers, by Kermit Turner, Frederick Warne, New York, 197 pages, $8.95.

Being young, Yeats said, "is like being chained to a monster." His meaning is richly understood and illustrated in the novel *Rebel Powers* by Kermit Turner of Hickory.

The book offers a portrait of 17-year-old David Talbot during his first summer away from home working as a soda jerk at a South Carolina tourist beach.

There is much to want and little to be had, as a working person in a world where money makes the rules, Talbot soon learns. The novel is set in the fifties and Turner remembers steadfastly the mores and fantasies that made the period unique.

But weightier matters than fashion soon cloud over his summer landscape. His fancy trousers attract the brawling instincts of a Marine on leave at one of the rougher oceanside bars, and Talbot is forced to become beholden to a resident beach bum for protection.

At this moral cul-de-sac, David Talbot makes the most disturbing discovery of all — women. As it turns out, it is not just one woman, but three in succession. All three women characters are splendidly drawn, exceeding even Talbot in individually and unpredictability.

First there is Fern, a woman of relaxed virtue who prefers her men very young and sometimes in groups. She initiates young David in the first mysteries of grown-up sex. Inevitably, David misreads her attention, and Fern must dismiss him, when be becomes jealous of another of her lovers.

This break-up only leads him to the more perplexing involvement with Trevelyn, his first true love, a girl just a little older than he, who struggles with a goading attraction to another woman, and a vacillating passionate-then-sisterly love for Talbot.

Finally in this trilogy of women is Rosemary, whom Talbot astonishes himself by seducing. The trick to love must be, he thinks, to stay aloof from feelings; to let the right words come from his mouth, and mean nothing in the process. This gains his immediate objective, but Rosemary soon confronts him with his deceit.

As Talbot overcomes his timidity toward women and surmounts his awe and fear of the beach bums, he changes — but not always moving from innocence to wisdom or from weakness to strength. Sometimes he only progresses from fear to callousness.

Talbot, like everyone else, must live his life as he can and not as he wishes — and it is the book's achievement that it makes so clear a distinction between outside "reality" and inward desire.

Turner is a professor of English at Lenoir Rhyne College in Hickory, where he edits the literary magazine *Graffiti*. With the appearance of *Rebel Powers* he makes his mark as a new and important talent in the American novel.

—Tom Hawkins

Cheer!

A farmer asked a veterinarian for some free advice. "I have a horse that sometimes walks normally and at other times has a decided limp. What shall I do?"

The vet replied, "The next time he walks normally, sell him!"

Weary of the constant disorder in her sons' room, a mother laid down the law: For every item she had to pick up off the floor, they would have to pay her a nickel. At the end of the week, the boys owed her 65¢. She received the money promptly — along with a 50-cent tip and a note that read: "Thanks, Mom. Keep up the good work!"

The woman stood helplessly at the side of the road looking at a flat tire. A kindly motorist stopped to assist her.

After he had changed the tire for her, she thanked him, then warned her benefactor:

"Please let the jack down easily. My husband's asleep in the back seat."

"I think we're all beginning to dread Gus's turn in the car pool."

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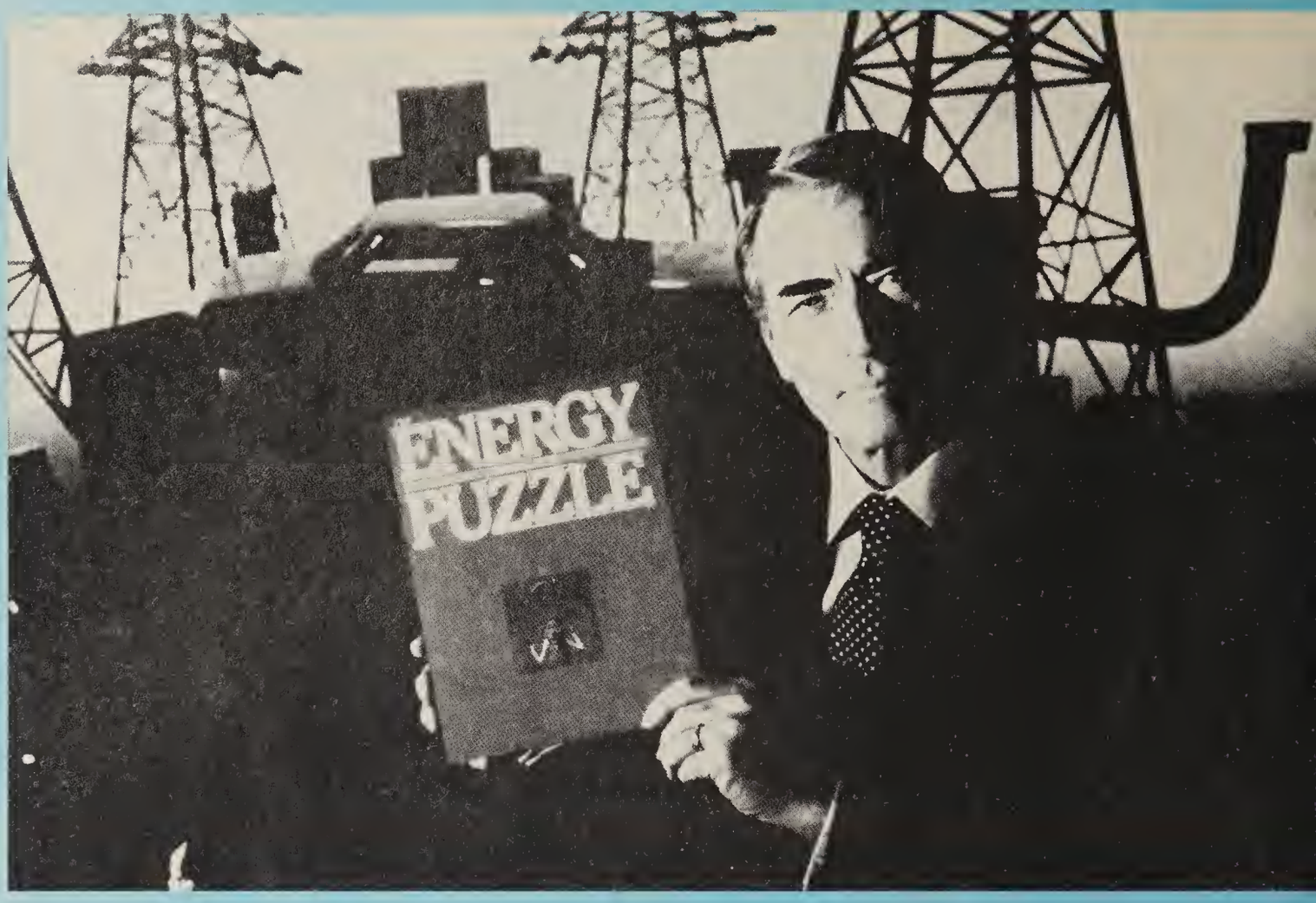

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